

(Remarks: the following substitute abstract has been shortened by 148 words.)

## **ABSTRACT**

An adjustable stepless hinge shaft comprises a male shaft tube, a female shaft tube and an adjustment rod. The male shaft tube contains a tubular hinge shaft having a mounting section at one extremity; the tubular hinge shaft includes a flange, a tapered hole section, a threaded hole section, and one or more lengthwise channel thereon. The female shaft tube comprises a tubular sleeve and a mounting section. The adjustment rod includes a tapered rod and a threaded stud at one extremity. The tubular hinge shaft is set in the tubular sleeve and the adjustment rod is then set in the tubular hinge shaft or the adjustment rod is first inserted into the tubular hinge shaft and then the tubular hinge shaft is inserted into the tubular sleeve, thereby completing assembly. The production and installation is simple and fast, while opening and closing operation is smooth and durable.

(Remarks: the original abstract has been marked up to show the amendment.)

## ABSTRACT

An adjustable stepless hinge shaft ~~comprised of~~ comprises a male shaft tube, a female shaft tube, and an adjustment rod. The male shaft tube ~~consists of~~ contains a tubular hinge shaft having a mounting section at one extremity; the tubular hinge shaft includes a flange ~~formed along its surface~~, a tapered hole section ~~at its interior portion~~, a threaded hole section ~~in its exterior portion~~, and one or more lengthwise channel thereon ~~on it~~. The female shaft tube ~~consists of~~ comprises a tubular sleeve and a mounting section; ~~the tubular sleeve includes a columnar bore inside and an annular groove near the entrance of the columnar bore~~. The adjustment rod ~~consists of~~ includes a tapered rod and a threaded stud at one extremity. The ~~male shaft tube~~ tubular hinge shaft is ~~inserted into~~ set in the ~~female shaft tube~~ tubular sleeve and the adjustment rod is then ~~inserted into~~ set in the ~~male shaft tube~~ tubular hinge shaft or the adjustment rod is first inserted into the ~~male shaft tube~~ tubular hinge shaft and then the tubular hinge shaft is inserted into the ~~female shaft tube~~ tubular sleeve, thereby completing assembly. The ~~overall structure is simple and has few structural components~~. Furthermore, production and installation is simple and fast, while opening and closing operation is smooth, ~~stable~~, and durable.